

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/538,772
Source: IFUP
Date Processed by STIC: 6/14/06

ENTERED



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/538,772

DATE: 06/14/2006
TIME: 10:50:10

Input Set : A:\P28025.ST25.txt
Output Set: N:\CRF4\06142006\J538772.raw

3 <110> APPLICANT: RIKEN
4 MIYAWAKI, Atsushi
5 NAGAI, Takeharu
7 <120> TITLE OF INVENTION: Fluorescent Indicator Using FRET
9 <130> FILE REFERENCE: P28025
11 <140> CURRENT APPLICATION NUMBER: 10/538,772
12 <141> CURRENT FILING DATE: 2005-06-10
14 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/015790
15 <151> PRIOR FILING DATE: 2003-12-10
17 <150> PRIOR APPLICATION NUMBER: JP2002-357768
18 <151> PRIOR FILING DATE: 2002-12-10
20 <160> NUMBER OF SEQ ID NOS: 45
22 <170> SOFTWARE: PatentIn version 3.3
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25 <211> LENGTH: 26
26 <212> TYPE: PRT
27 <213> ORGANISM: animal
29 <400> SEQUENCE: 1
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32 1 5 10 15
35 Phe Lys Lys Ile Ser Ser Ser Gly Ala Leu
36 20 25
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40 <211> LENGTH: 20
41 <212> TYPE: PRT
42 <213> ORGANISM: animal
44 <400> SEQUENCE: 2
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55 <211> LENGTH: 20
56 <212> TYPE: PRT
57 <213> ORGANISM: animal
59 <400> SEQUENCE: 3
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65 Arg Asn Phe Ser
66 20
69 <210> SEQ ID NO: 4
70 <211> LENGTH: 17
71 <212> TYPE: PRT

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72 <213> ORGANISM: animal
74 <400> SEQUENCE: 4
76 Gly Val Arg Asn Ile Lys Ser Met Trp Glu Lys Gly Asn Val Phe Ser
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80 Ser
84 <210> SEQ ID NO: 5
85 <211> LENGTH: 20
86 <212> TYPE: PRT
87 <213> ORGANISM: animal
89 <400> SEQUENCE: 5
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92 1 5 10 15
95 Arg Leu Gly Ser
96 20
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 26
101 <212> TYPE: PRT
102 <213> ORGANISM: animal
104 <400> SEQUENCE: 6
106 Phe Met Asn Asn Trp Glu Val Tyr Lys Leu Leu Ala His Ile Arg Pro
107 1 5 10 15
110 Pro Ala Pro Lys Ser Gly Ser Tyr Thr Val
111 20 25
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 24
116 <212> TYPE: PRT
117 <213> ORGANISM: animal
119 <400> SEQUENCE: 7
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122 1 5 10 15
125 Ala Arg Val Phe Ser Val Leu Arg
126 20
129 <210> SEQ ID NO: 8
130 <211> LENGTH: 26
131 <212> TYPE: PRT
132 <213> ORGANISM: animal
134 <400> SEQUENCE: 8
136 Leu Arg Arg Leu Ile Asp Ala Tyr Ala Phe Arg Ile Tyr Gly His Trp
137 1 5 10 15
140 Val Lys Lys Gly Gln Gln Gln Asn Arg Gly
141 20 25
144 <210> SEQ ID NO: 9
145 <211> LENGTH: 27
146 <212> TYPE: PRT
147 <213> ORGANISM: animal
149 <400> SEQUENCE: 9
151 Arg Gly Lys Phe Lys Val Ile Cys Leu Thr Val Leu Ala Ser Val Arg
152 1 5 10 15
155 Ile Tyr Tyr Gln Tyr Arg Arg Val Lys Pro Gly

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156 20 25
159 <210> SEQ ID NO: 10
160 <211> LENGTH: 28
161 <212> TYPE: PRT
162 <213> ORGANISM: animal
164 <400> SEQUENCE: 10
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167 1 5 10 15
170 Thr Gln Ile Lys Val Val Asn Ala Phe Ser Ser Ser
171 20 25
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 21
176 <212> TYPE: PRT
177 <213> ORGANISM: animal
179 <400> SEQUENCE: 11
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185 Lys Gln Leu Glu Lys
186 20
189 <210> SEQ ID NO: 12
190 <211> LENGTH: 21
191 <212> TYPE: PRT
192 <213> ORGANISM: animal
194 <400> SEQUENCE: 12
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197 1 5 10 15
200 Lys Gln Leu Glu Lys
201 20
204 <210> SEQ ID NO: 13
205 <211> LENGTH: 23
206 <212> TYPE: PRT
207 <213> ORGANISM: animal
209 <400> SEQUENCE: 13
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212 1 5 10 15
215 Ser Ala Lys Leu Met Gly Gln
216 20
219 <210> SEQ ID NO: 14
220 <211> LENGTH: 28
221 <212> TYPE: PRT
222 <213> ORGANISM: animal
224 <400> SEQUENCE: 14
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227 1 5 10 15
230 Val Gln Leu Met His Cys Arg Lys Met Phe Lys Ala
231 20 25
234 <210> SEQ ID NO: 15
235 <211> LENGTH: 20
236 <212> TYPE: PRT

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Input Set : A:\P28025.ST25.txt
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237 <213> ORGANISM: animal
239 <400> SEQUENCE: 15
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245 Gly Thr Glu Ala
246 20
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250 <211> LENGTH: 27
251 <212> TYPE: PRT
252 <213> ORGANISM: animal
254 <400> SEQUENCE: 16
256 Lys Ala His Lys Ala Ala Thr Lys Ile Gln Ala Ser Phe Arg Gly His
257 1 5 10 15
260 Ile Thr Arg Lys Lys Leu Lys Gly Glu Lys Lys
261 20 25
264 <210> SEQ ID NO: 17
265 <211> LENGTH: 24
266 <212> TYPE: PRT
267 <213> ORGANISM: animal
269 <400> SEQUENCE: 17
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275 Ala Thr Phe Asn Ser Ile Lys Glu
276 20
279 <210> SEQ ID NO: 18
280 <211> LENGTH: 25
281 <212> TYPE: PRT
282 <213> ORGANISM: animal
284 <400> SEQUENCE: 18
286 Lys Lys Lys Lys Lys Arg Phe Ser Phe Lys Lys Ser Phe Lys Leu Ser
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290 Gly Phe Ser Phe Lys Lys Ser Lys Lys
291 20 25
294 <210> SEQ ID NO: 19
295 <211> LENGTH: 24
296 <212> TYPE: PRT
297 <213> ORGANISM: animal
299 <400> SEQUENCE: 19
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302 1 5 10 15
305 Leu Ser Phe Lys Arg Asn Arg Lys
306 20
309 <210> SEQ ID NO: 20
310 <211> LENGTH: 31
311 <212> TYPE: PRT
312 <213> ORGANISM: animal
314 <400> SEQUENCE: 20
316 Lys Gln Gln Lys Glu Lys Thr Arg Trp Leu Asn Thr Pro Asn Thr Tyr
317 1 5 10 15

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Input Set : A:\P28025.ST25.txt

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320 Leu Arg Val Asn Val Ala Asp Glu Val Gln Arg Asn Met Gly Ser
321 20 25 30
324 <210> SEQ ID NO: 21
325 <211> LENGTH: 21
326 <212> TYPE: PRT
327 <213> ORGANISM: animal
329 <400> SEQUENCE: 21
331 Lys Asp Gln Val Ala Asn Ser Ala Phe Gln Glu Arg Leu Arg Lys His
332 1 5 10 15
335 Gly Leu Glu Val Ile
336 20
339 <210> SEQ ID NO: 22
340 <211> LENGTH: 21
341 <212> TYPE: PRT
342 <213> ORGANISM: animal
344 <400> SEQUENCE: 22
346 Tyr His Arg Leu Arg Asp Leu Leu Leu Ile Val Lys Arg Ile Val Glu
347 1 5 10 15
350 Leu Leu Gly Arg Arg
351 20
354 <210> SEQ ID NO: 23
355 <211> LENGTH: 23
356 <212> TYPE: PRT
357 <213> ORGANISM: animal
359 <400> SEQUENCE: 23
361 Gln Gln Leu Ala Thr Leu Ile Gln Lys Thr Tyr Arg Gly Trp Arg Cys
362 1 5 10 15
365 Arg Thr His Tyr Gln Leu Met
366 20
369 <210> SEQ ID NO: 24
370 <211> LENGTH: 24
371 <212> TYPE: PRT
372 <213> ORGANISM: animal
374 <400> SEQUENCE: 24
376 Arg Ala Ala Cys Ile Arg Ile Gln Lys Thr Ile Arg Gly Trp Leu Leu
377 1 5 10 15
380 Arg Lys Arg Tyr Leu Cys Met Gln
381 20
384 <210> SEQ ID NO: 25
385 <211> LENGTH: 12
386 <212> TYPE: PRT
387 <213> ORGANISM: animal
389 <400> SEQUENCE: 25
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392 1 5 10
395 <210> SEQ ID NO: 26
396 <211> LENGTH: 26
397 <212> TYPE: PRT
398 <213> ORGANISM: animal

RAW SEQUENCE LISTING ERROR SUMMARY **DATE:** 06/14/2006
PATENT APPLICATION: US/10/538,772 **TIME:** 10:50:11

Input Set : A:\P28025.ST25.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:36; Xaa Pos. 4
Seq#:38; Xaa Pos. 2
Seq#:39; Xaa Pos. 3,4

VERIFICATION SUMMARY

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Input Set : A:\P28025.ST25.txt

Output Set: N:\CRF4\06142006\J538772.raw

L:550 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0

L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0

L:595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0